

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 21 through 27 of 27 returned.**☐ 21. Document ID: US 5707795 A

L1: Entry 21 of 27

File: USPT

Jan 13, 1998

US-PAT-NO: 5707795

DOCUMENT-IDENTIFIER: US 5707795 A

TITLE: Therapy and diagnosis of conditions related to telomere length and/or telomerase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 22. Document ID: US 5695932 A

L1: Entry 22 of 27

File: USPT

Dec 9, 1997

US-PAT-NO: 5695932

DOCUMENT-IDENTIFIER: US 5695932 A

TITLE: Telomerase activity assays for diagnosing pathogenic infections

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 23. Document ID: US 5686245 A

L1: Entry 23 of 27

File: USPT

Nov 11, 1997

US-PAT-NO: 5686245

DOCUMENT-IDENTIFIER: US 5686245 A

TITLE: Methods for screening for agents which modulate telomere length

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 24. Document ID: US 5645986 A

L1: Entry 24 of 27

File: USPT

Jul 8, 1997

US-PAT-NO: 5645986

DOCUMENT-IDENTIFIER: US 5645986 A

TITLE: Therapy and diagnosis of conditions related to telomere length and/or telomerase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 25. Document ID: US 5489508 A

L1: Entry 25 of 27

File: USPT

Feb 6, 1996

US-PAT-NO: 5489508

DOCUMENT-IDENTIFIER: US 5489508 A

TITLE: Therapy and diagnosis of conditions related to telomere length and/or telomerase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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☐ 26. Document ID: US 5190864 A

L1: Entry 26 of 27

File: USPT

Mar 2, 1993

US-PAT-NO: 5190864

DOCUMENT-IDENTIFIER: US 5190864 A

TITLE: Enzyme amplification by using free enzyme to release enzyme from an immobilized enzyme material

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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☐ 27. Document ID: US 4937188 A

L1: Entry 27 of 27

File: USPT

Jun 26, 1990

US-PAT-NO: 4937188

DOCUMENT-IDENTIFIER: US 4937188 A

TITLE: Enzyme activity amplification method for increasing assay sensitivity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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VERTEBRATED.DWPI,EPAB,JPAB,USPT,PGPB.	22
VERTEBRATES.DWPI,EPAB,JPAB,USPT,PGPB.	3928
VERTEBRATES:DWPI,EPAB,JPAB,USPT,PGPB.	23
GERM.DWPI,EPAB,JPAB,USPT,PGPB.	15857
GERMS.DWPI,EPAB,JPAB,USPT,PGPB.	8558
CELL.DWPI,EPAB,JPAB,USPT,PGPB.	747287
CELLS.DWPI,EPAB,JPAB,USPT,PGPB.	500512
PSORALEN.DWPI,EPAB,JPAB,USPT,PGPB.	1386
PSORALENS.DWPI,EPAB,JPAB,USPT,PGPB.	589
(VERTEBRATES\$2 AND GERM AND CELL AND PSORALEN AND MUTAGEN\$5).USPT,PGPB,JPAB,EPAB,DWPI.	27

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 20 of 27 returned.**☐ 11. Document ID: US 6166178 A

L1: Entry 11 of 27

File: USPT

Dec 26, 2000

US-PAT-NO: 6166178

DOCUMENT-IDENTIFIER: US 6166178 A

TITLE: Telomerase catalytic subunit

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWMC	Draw Desc	Image
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☐ 12. Document ID: US 6100026 A

L1: Entry 12 of 27

File: USPT

Aug 8, 2000

US-PAT-NO: 6100026

DOCUMENT-IDENTIFIER: US 6100026 A

TITLE: Matrices with memories and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWMC	Draw Desc	Image
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☐ 13. Document ID: US 6046307 A

L1: Entry 13 of 27

File: USPT

Apr 4, 2000

US-PAT-NO: 6046307

DOCUMENT-IDENTIFIER: US 6046307 A

TITLE: Modulation of mammalian telomerase by peptide nucleic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWMC	Draw Desc	Image
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☐ 14. Document ID: US 6025129 A

L1: Entry 14 of 27

File: USPT

Feb 15, 2000

US-PAT-NO: 6025129

DOCUMENT-IDENTIFIER: US 6025129 A

TITLE: Remotely programmable matrices with memories and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWMC	Draw Desc	Image
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☐ 15. Document ID: US 6022735 A

L1: Entry 15 of 27

File: USPT

Feb 8, 2000

US-PAT-NO: 6022735

DOCUMENT-IDENTIFIER: US 6022735 A

TITLE: Composition for introducing nucleic acid complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 16. Document ID: US 6017496 A

L1: Entry 16 of 27

File: USPT

Jan 25, 2000

US-PAT-NO: 6017496

DOCUMENT-IDENTIFIER: US 6017496 A

TITLE: Matrices with memories and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 17. Document ID: US 6007989 A

L1: Entry 17 of 27

File: USPT

Dec 28, 1999

US-PAT-NO: 6007989

DOCUMENT-IDENTIFIER: US 6007989 A

TITLE: Methods of screening for compounds that derepress or increase telomerase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 18. Document ID: US 5961923 A

L1: Entry 18 of 27

File: USPT

Oct 5, 1999

US-PAT-NO: 5961923

DOCUMENT-IDENTIFIER: US 5961923 A

TITLE: Matrices with memories and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 19. Document ID: US 5840495 A

L1: Entry 19 of 27

File: USPT

Nov 24, 1998

US-PAT-NO: 5840495

DOCUMENT-IDENTIFIER: US 5840495 A

TITLE: Methods for diagnosis of conditions associated with elevated levels of telomerase activity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 20. Document ID: US 5830644 A

L1: Entry 20 of 27

File: USPT

Nov 3, 1998

US-PAT-NO: 5830644

DOCUMENT-IDENTIFIER: US 5830644 A

TITLE: Method for screening for agents which increase telomerase activity in a cell

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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VERTEBRATES.DWPI,EPAB,JPAB,USPT,PGPB.	3928
VERTEBRATES.DWPI,EPAB,JPAB,USPT,PGPB.	23
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PSORALEN.DWPI,EPAB,JPAB,USPT,PGPB.	1386
PSORALENS.DWPI,EPAB,JPAB,USPT,PGPB.	589
(VERTEBRATES\$2 AND GERM AND CELL AND PSORALEN AND MUTAGEN\$5).USPT,PGPB,JPAB,EPAB,DWPI.	27

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 27 returned.**☐ 1. Document ID: US 20010039006 A1

L1: Entry 1 of 27

File: PGPB

Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010039006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039006 A1

TITLE: Toxicity typing using embryoid bodies

PUBLICATION-DATE: November 8, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Snodgrass, H. Ralph	San Mateo	CA	US	

US-CL-CURRENT: 435/4; 435/366[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RVMC](#) [Draw Desc](#) [Image](#)☐ 2. Document ID: US 6344554 B1

L1: Entry 2 of 27

File: USPT

Feb 5, 2002

US-PAT-NO: 6344554

DOCUMENT-IDENTIFIER: US 6344554 B1

TITLE: Polynucleotide sequences from Candida albicans encoding polypeptides associated with filamentous growth

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RVMC](#) [Draw Desc](#) [Image](#)☐ 3. Document ID: US 6340588 B1

L1: Entry 3 of 27

File: USPT

Jan 22, 2002

US-PAT-NO: 6340588

DOCUMENT-IDENTIFIER: US 6340588 B1

TITLE: Matrices with memories

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[RVMC](#) [Draw Desc](#) [Image](#)☐ 4. Document ID: US 6329139 B1

L1: Entry 4 of 27

File: USPT

Dec 11, 2001

US-PAT-NO: 6329139

DOCUMENT-IDENTIFIER: US 6329139 B1

TITLE: Automated sorting system for matrices with memory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 5. Document ID: US 6319668 B1

L1: Entry 5 of 27

File: USPT

Nov 20, 2001

US-PAT-NO: 6319668

DOCUMENT-IDENTIFIER: US 6319668 B1

TITLE: Method for tagging and screening molecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 6. Document ID: US 6294650 B1

L1: Entry 6 of 27

File: USPT

Sep 25, 2001

US-PAT-NO: 6294650

DOCUMENT-IDENTIFIER: US 6294650 B1

TITLE: Inhibition of mammalian telomerase by peptide nucleic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 7. Document ID: US 6284535 B1

L1: Entry 7 of 27

File: USPT

Sep 4, 2001

US-PAT-NO: 6284535

DOCUMENT-IDENTIFIER: US 6284535 B1

TITLE: Splice variants of the heregulin gene, nARIA and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 8. Document ID: US 6284459 B1

L1: Entry 8 of 27

File: USPT

Sep 4, 2001

US-PAT-NO: 6284459

DOCUMENT-IDENTIFIER: US 6284459 B1

TITLE: Solid support matrices with memories and combinatorial libraries therefrom

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FWMC	Draw Desc	Image
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☐ 9. Document ID: US 6274322 B1

L1: Entry 9 of 27

File: USPT

Aug 14, 2001



US-PAT-NO: 6274322

DOCUMENT-IDENTIFIER: US 6274322 B1

TITLE: Composition for introducing nucleic acid complexes into higher eucaryotic cells

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6194206 B1

L1: Entry 10 of 27

File: USPT

Feb 27, 2001

US-PAT-NO: 6194206

DOCUMENT-IDENTIFIER: US 6194206 B1

TITLE: Use of oligonucleotide telomerase inhibitors to reduce telomere length

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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PSORALENS.DWPI,EPAB,JPAB,USPT,PGPB.	589
(VERTEBRATES\$2 AND GERM AND CELL AND PSORALEN AND MUTAGEN\$5).USPT,PGPB,JPAB,EPAB,DWPI.	27

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cross-linking with 250- to 280-nm UV light indicated that approximately 1 of 9 **psoralen** monoadducts was bypassed during in vitro replication. Introduction of product DNA into *Escherichia coli* to score replication errors in the lacZalpha reporter gene demonstrated that replication of the damaged DNA was more **mutagenic** than was replication of undamaged DNA. Sequence analysis of lacZ mutants revealed that damage-dependent replication errors were predominantly T.A-->C.G transitions, transversions at C.G base pairs, and deletions of single A.T base pairs, the last occurring most frequently in homopolymeric runs. A comparison of error specificities with two substrates having the replication origin asymmetrically placed on opposite sides of the mutational target suggests that the lagging-strand replication apparatus is less accurate than the leading-strand replication apparatus for **psoralen** monoadduct-dependent deletion errors. A model is proposed based on the preferential loopout of the monoadducted base from the strand that templates retrograde discontinuous synthesis.

9/3,AB/4 (Item 4 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

08651513 96080373 PMID: 7473757

The **mutagenic** processing of **psoralen** photolesions leaves a highly specific signature at an endogenous human locus.

Laquerbe A; Guillouf C; Moustacchi E; Papadopoulos D

URA 1292 du CNRS Institut Curie Section de Recherche, Paris, France.

Journal of molecular biology (ENGLAND) Nov 17 1995, 254 (1)  
p38-49, ISSN 0022-2836 Journal Code: J6V

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

To assess the role of a given genotoxic agent in the etiology of human cancers, it is useful to establish the mutational specificity of this agent. The aim of this study was to investigate whether the processing of **psoralen** photolesions, interstrand cross-links (CL) and monoadducts (MA), leaves a specific molecular signature in the mutational events produced at an endogenous locus, HPRT. Human lymphoblasts were treated by 4,5',8-trimethyl**psoralen** (Me3Pso) in association with a double irradiation protocol (365 plus 365 nm) which allows us to increase the proportion of CL for a given constant number of total photoadducts. The molecular spectrum of mutations at the HPRT locus induced in these conditions was compared to the previously reported spectra of mutations induced by the same **psoralen** in combination with a single irradiation of either 365 nm (induction of MA and a low proportion of CL) or 405 nm (producing almost exclusively MA). In all treatment conditions, base substitutions constitute the major type of Me3Pso photoinduced mutations. The majority of base substitutions involve a T residue preferably within a 5'-TpA sequence which corresponds to the favoured sites of **psoralen** photoadducts. In other words, the Me3Pso photolesions induce at the endogenous HPRT locus a high specific signature. Moreover, base substitutions have been essentially found in the non-transcribed strand of the HPRT gene suggesting that the **psoralen** photolesions are preferentially removed from the transcribed strand. In spite of the considerable difference between the proportion of lesions of both types (CL or MA) induced in different treatment conditions, the kind of mutations and their sequence distribution are similar suggesting that the **mutagenic** processing of **psoralen** CL and MA is similar at least for the steps resulting in base substitutions.

9/3,AB/5 (Item 5 from file: 155)  
DIALOG(R) File 155:MEDLINE(R)

08485334 95214674 PMID: 7700281

Genotoxic potential of **psoralen** cross-links versus monoadducts in

agents for skin diseases. Synthesis, biological activity, mechanism of action, and computer-aided studies.

Rodighiero P; Guiotto A; Chilin A; Bordin F; Baccichetti F; Carlassare F; Vedaldi D; Caffieri S; Pozzan A; Dall'Acqua F

Centro di Studio sulla Chimica del Farmaco e dei Composti Biologicamente Attivi del CNR, Padova, Italy.

Journal of medicinal chemistry (UNITED STATES) Mar 15 1996, 39

(6) p1293-302, ISSN 0022-2623 Journal Code: JOF

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

With the aim of obtaining new potential photochemotherapeutic agents, having increased antiproliferative activity and decreased undesired effects, we have prepared some new furoquinolinones. Two of them have been studied in detail: 1,4,6,8-tetramethyl-2H-furo[2,3-h]-quinolin-2-one (8), and 4,6,8,9-tetramethyl-2H-furo[2,3-h]quinolin-2-one (10). These compounds form a molecular complex with DNA, undergoing intercalation inside the duplex macromolecule, as shown by linear flow dichroism. The complexed ligands, by subsequent irradiation with UV-A light, photobind with the macromolecule forming only monocycloadducts with thymine with cis-syn configuration. In order to evaluate the electronic effects induced by the nitrogen atom in position 1 of 8, semiempirical calculations have been performed on both 4,6,4'-**trimethylangelicin** (TMA) and 8. The results obtained do not clearly differentiate between the two molecules which, at this level of approximation, show the possibility of photoreaction with both the 3,4- and 8,9-olefinic bonds for 8 and the 3,4- and 4',5'-bonds for TMA. In the lower energy conformation of intercalated 8, the furan ring is turned toward the minor groove of the polynucleotide, in such a way that photoreaction of this ring with thymine is favored. These compounds unexpectedly inhibit DNA and RNA synthesis in Ehrlich cells, in the dark. They also show a strong photoantiproliferative activity, 2 orders of magnitude higher than 8-methoxypsoralen (8-MOP), the most used drug for photochemotherapy. Their **mutagenic** activity on *Escherichia coli* is similar to that of TMA and 8-MOP. On the basis of these results, the compounds should deserve evaluation of their activity in the treatment of hyperproliferative skin diseases.

9/3,AB/3 (Item 3 from file: 155)  
DIALOG(R)File 155:MEDLINE(R)

08848461 96189137 PMID: 8628322

QH506.m4

Strand specificity of **mutagenic** bypass replication of DNA containing **psoralen** monoadducts in a human cell extract.

Thomas DC; Svoboda DL; Vos JM; Kunkel TA

Laboratory of Molecular Genetics, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina 27709, USA.

Molecular and cellular biology (UNITED STATES) May 1996, 16 (5)

p2537-44, ISSN 0270-7306 Journal Code: NGY

Contract/Grant No.: 1-R01-CA51096, CA, NCI

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

★ Psoralens are **mutagenic** compounds of vegetable origin that are used as photosensitizing agents in the treatment of various skin diseases, blood cell cancer, and autoimmune disorders. To study the mechanism of **mutagenicity** of psoralens in humans, we examined the efficiency and fidelity of simian virus 40 origin-dependent replication in a human cell extract of M13mp2 DNA randomly treated with the **psoralen** derivative 4'-hydroxymethyl-4,5',8-**trimethyl** **psoralen** plus UVA irradiation. Replication of DNA treated with variable amounts of 4'-hydroxymethyl-4,5',8-**trimethyl** **psoralen** and a fixed UVA fluence was inhibited in a concentration-dependent manner. However, covalently closed monomer-length circular replication products were observed. Product analysis by renaturing agarose gel electrophoresis after